

## Product datasheet for **SC335013**

### **METTL9 (NM\_001288659) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	METTL9 (NM_001288659) Human Untagged Clone
Tag:	Tag Free
Symbol:	METTL9
Synonyms:	CGI-81; DREV; DREV1; PAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001288659, the custom clone sequence may differ by one or more nucleotides

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ATGGATCGAAAGACCACGAGCTGGGATACCAAGTTCTATGAAAAGTGGTATGTGTGCAACAGAGAGAAAT
TATGCGAATCACTCCAGGCTGTCTTTGTTGAGAGTTACCTTGATCAAGGAACACAGATCTTCTTAAACAA
CAGCATTGAGAAATCGGGCTGGCTATTTATCCAATTATATCATTCTTTGTGTCATCTGTTTTAGCCTG
TTTATGTCTAGAACATCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTGTGTTTTCCACAGATCAGT
TTCAGAGACTGCTTAAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTTAGGTGCTGGAGATGG
AGAAGTCACAAAATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTCTGAAACTATGATA
TGGCAGCTTCAGAAAAGAAATACAGAGTCCTTGGTATAAATGAATGGCAGAATACGGGGTCCAGTATG
ATGTCATCAGCTGCCTGAACTTGCTGGACCGCTGTGATCAGCCCTGACTTTGTTAAAAGATATCAGAAG
TGTCTTGAGCCAACTAGAGGCAGGGTCATCCTTGCCCTTGCTCCTCCCTTTTCATCCCTATGTGGAAAAC
GTAGGTGGCAAGTGGGAGAAACCATCAGAAATTTGAAATCAAAGGACAGAAGTGGGAAGAACAAGTGA
ATAGTCTGCCTGAAGTTTTAGAAAAGCTGGTTTTGTTATCGAAGCTTTCACAGACTACCATACCTGTG
TGAAGGCGACATGTATAATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACAGTAA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001288659
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u>NM_001288659.1, NP_001275588.1</u>
<b>RefSeq Size:</b>	2924 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	51108
<b>UniProt ID:</b>	<u>Q9H1A3</u>
<b>Cytogenetics:</b>	16p12.2
<b>Gene Summary:</b>	<p>Protein-histidine N-methyltransferase that specifically catalyzes 1-methylhistidine (pro-methylhistidine) methylation of target proteins (PubMed:33563959). Mediates methylation of proteins with a His-x-His (HxH) motif (where 'x' is preferably a small amino acid) (PubMed:33563959). Catalyzes methylation of target proteins such as S100A9, NDUF3, SLC39A5, SLC39A7, ARMC6 and DNAJB12; 1-methylhistidine modification may affect the binding of zinc and other metals to its target proteins (PubMed:33563959). Constitutes the main methyltransferase for the 1-methylhistidine modification in cell (PubMed:33563959). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a shorter and distinct N-terminus, compared to isoform 1.</p>